

CLAIMS

1. A device (10) for the manipulation and movement of objects (33, 34) contained inside a magazine (30) equipped with a plurality of housings, each designed to accommodate an object to be transferred, the device (10) being mobile on a plane (X,Y) in front of the magazine and positionable in front of each of the housings, the device (10) comprising a cell (11) to contain an object (33, 34), the device being characterised in that it comprises a carriage (15), which moves in a direction (Z) at right angles to the plane (X,Y) on respective guides (14-14') in the lower part of the cell (11), also comprising a slide (18) mechanically connected to the carriage (15) and mobile in the same direction as the carriage (15), in which the upper surface of the carriage (15) and of the slide (18) form a support surface for an object to be transferred, and in that the device (10) also comprises a mechanism (24) for activating the carriage (15) and the slide (18) by means of an appropriate source of motion.
2. A device (10) according to claim 1, characterised in that the carriage (15) comprises a cavity bordered by a pair of side guides, the slide (18) being positioned inside this cavity and being movable along the side guides.
3. A device (10) according to any of the foregoing claims, characterised in that the slide (18) presents a longitudinal slot inside which is a bar (19), each end of which is equipped with a striker element (20-20').
4. A device (10) according to claim 3, characterised in

that the bar (19) works with elastic loading means (21-21') designed to allow minimal longitudinal movements of the bar (19) and to guarantee its centering.

5 5. A device (10) according to claim 4, characterised in that the elastic loading means consist of leaf springs (21-21') which can be fixed to the central part of the slide (18) and striking against respective pins (22-22') on the bar (19).

10 6. A device (10) according to any of the foregoing claims, characterised in that there is a single source of motion for the movement of the carriage (11) and of the slide (18) consisting of a electric motor (16).

15 7. A device (10) according to claim 6, characterised in that the electric motor (16) is housed inside a casing (7) integral with one side of the carriage (15).

20 8. A device (10) according to any of the foregoing claims, characterised in that the carriage (15) and the source of motion are kinematically connected by means of a first rack (41) integral with the carriage (15) and a driving gear (40) fixed to the shaft of the electric motor (18).

25 9. A device (10) according to any of the foregoing claims, characterised in that the slide (18) and the source of motion are kinematically connected by means of a second rack (29) designed to engage with at least one end driven gear wheel (28-28') of a step-up gear train (27) receiving the motion from a primary driving gear (25) cooperating with the source of motion.

30 10. A device (10) according to claim 8, characterised in that the gear train (27) is housed inside a protective guard (23) positioned at the side of the carriage (15)

close to the casing (17).

11. A device (10) according to any of the foregoing claims, characterised in that the objects to be transferred consist of recorded objects.

5 12. A device (10) according to any of the foregoing claims from 1 to 10, characterised in that the objects to be transferred consist of photographic products, medical or paramedical items, prepackaged food or drink items, flowers or tobacco articles.

10 13. A device (10) according to any of the foregoing claims, characterised in that it is mounted inside an automatic dispensing machine.

14. A device (10) according to claim 13, characterised in that the automatic dispensing machine is designed to
15 dispense recorded objects such as video cassettes and/or DVDs or other audiovisual items.